

CLIPPEDIMAGE= JP408015955A

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TITLE: ELECTRIFYING DEVICE

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ABSTRACT:

PURPOSE: To prevent the white stripe of an image by applying the vibration of frequency equal to or above a specified value to a brush for electrification by a piezoelectric element.

CONSTITUTION: In this electrifying device, a brush 1 consisting of rayon conductive fiber is fixed to a mounting bracket 2 made of aluminum with conductive adhesive and the piezoelectric element 3 is fixed on the back surface of the bracket 2. The brush 1 is brought into contact with a photoreceptor 4 so as to impress DC voltage on the brush 1 from a power

source, and the DC voltage is impressed on a developing roller. By impressing AC voltage on the piezoelectric element 3, in such a state, the vibration of the frequency of $\geq 50\text{Hz}$ is imparted to the brush 1. As a result, the dispersion range of the surface potential of the photoreceptor 4 is restrained to $\leq 200\text{V}$, and the vertical stripe in the image is prevented. Furthermore, toner and paper powder are shaken off by the vibration of the brush, thereby preventing the adhesion of a foreign matter and prolonging the life of the brush.

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